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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,727	07/07/2006	Vesa Korhonen	034382-005	9453
21839 DLICH ANAN	7590 08/03/2007 INGERSOLL & ROONEY	EXAMINER		
POST OFFICE	BOX 1404	BASINGER, SHERMAN D		
ALEXANDRIA	A, VA 22313-1404		ART UNIT	. PAPER NUMBER
			3617	
			MAIL DATE	DELIVERY MODE
	•		08/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

			Application	ı No.	Applicant(s)				
Office A - Alexan Communication			10/552,727	,	KORHONEN	KORHONEN ET AL.			
Office Action Summary			Examiner		Art Unit				
			Sherman D	. Basinger	_ 3617				
Period fo	The MAILING DATE of this commun r Reply	ication appea	ars on the	cover sheet w	ith the corresponden	ce address			
WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE N Isions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this come period for reply is specified above, the maximum st re to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DAT s of 37 CFR 1.136( munication. tatutory period will y will, by statute, ca	TE OF THI (a). In no ever apply and will ause the applic	S COMMUNI at, however, may a expire SIX (6) MON cation to become A	CATION. reply be timely filed NTHS from the mailing date of BANDONED (35 U.S.C. § 13	f this communication.			
Status									
1)	Responsive to communication(s) file	ed on .							
, —	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.								
·—	·—								
٠,٠.	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims		•	•					
4\\ <del>\</del> \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.								
-	4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
· —	Claim(s) <u>1-12</u> is/are rejected.								
	Claim(s) is/are objected to.								
8)[	Claim(s) are subject to restrict	ction and/or	election re	quirement.					
Applicati	on Papers								
91⊠	The specification is objected to by th	e Examiner							
9)⊠ The specification is objected to by the Examiner.  10)⊠ The drawing(s) filed on <u>11 October 2005</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.									
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ι	ınder 35 U.S.C. § 119								
12)⊠	Acknowledgment is made of a claim	for foreign p	riority und	er 35 U.S.C.	§ 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:									
	1.⊠ Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
	application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.									
	44.3								
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)									
2) Notic	e of Draftsperson's Patent Drawing Review (	(s)/Mail Date							
	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>10/11/05&amp;7/7/06</u> .	5)  Notice of 6)  Other:	Informal Patent Applicatio	n .					

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#### **DETAILED ACTION**

1. The preliminary amendment filed October 11, 2005 has been received.

## **Drawings**

- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 32 of page 5, line 2. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 24 of figure 1. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filling

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date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Specification

4. Objection is made to page 1, lines 4 and 5 and page 2, lines 21-23. Objection is made because each of these passages make reference to a particular wording of a claim and to a particular claim, both of which may change. For example, a claim 10 make not be in the application upon allowance, or claim 10 make not include what is discussed in these passages.

## Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-3, 6, 8-11 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Krautkremer et al.

Krautkremer et al discloses for claim 1 a method for controlling a propulsion drive, which drive

comprises at least one first propeller drive 10, 25a, 8 and 6, which rotates a first propeller 4, and by which the

propulsion power and/or rotating speed of the first propeller is adjusted, and at least one second propeller drive 11, 25b, 7 and 9, by which a second propeller 5 is rotated and adjusted, whereby the

first and the second propeller drive are essentially separated from each other,

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wherein the method the propulsion drive is controlled by a single control command 18, whereby a first control signal 19, 22 and 24 for controlling the first propeller drive, and a second control

signal 20, 21 and 23 for controlling the second propeller drive, are generated from the control command.

For claim 2, it is inherent that the first and the second control signals are generated to result an optimal combined propulsion and/or steering power.

For claim 3, see figure 8a where the propellers driven by the first and the second propeller drives are arranged on the

essentially same horizontal level, and that the propellers are rotated in the opposite directions.

For claims 6 and 8-10 see column 4, lines 8-13.

For claim 11, see column 4, lines 8-13, column 6, lines 29-54 and column 6, lines 60-65.

Krautkremer et al discloses for claim 12 an apparatus for controlling a propulsion drive, which comprises

at least one first propeller drive 10, 25a, 6 and 8 which rotates a first propeller 4, and by which the propulsion

power and/or the rotating speed is controllable (see column 4, lines 8-13), and at least one second propeller drive 11, 25b, 7 and 9

which a second propeller 5 is rotatable and controllable, whereby the first and the second

propeller drive are essentially separated from each other, that wherein the apparatus comprises a control device 18 to control the propulsion drive by a single control

command 50, whereby based on the control command 50 the control device generates a first

control signal 19, 22, 24, by which the first propeller drive is controllable, and a second control signal 20, 21 and 23,

by which the second propulsion drive is controllable.

# Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. Claims 1, 4, 5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Langenberg et al in view of Krautkremer et al.

Langenberg et al discloses for claim 1, a method for controlling a propulsion drive, which drive

comprises at least one first propeller drive 201, 203, 204, which rotates a first propeller 5, and by which the

propulsion power and/or rotating speed of the first propeller is adjusted, and at least one second propeller drive 103, 101 and 102 by which a second propeller 1 is rotated and adjusted, whereby the

first and the second propeller drive are essentially separated from each other.

Langenberg et al does not disclose that the propulsion drives are controlled by a single control command,

whereby a first control signal for controlling the first propeller drive, and a second control signal for controlling the second propeller drive, are generated from the control command.

Krautkremer et al discloses his propulsion drive is controlled by a single control command 50, 18,

whereby a first control signal 19, 22 and 24 for controlling a first propeller drive 6, 8, 10 and 25a, and a second control

signal 20, 21 and 23 for controlling a second propeller drive 7, 9, 11 and 25b, are generated from the control command.

In view of 50 and 18 of Krautkremer et al it would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains to provide to Langenberg et al a single control command similar to 50 of Krautkremer et al

whereby a first control signal for controlling the first propeller drive 101, and a second control

signal for controlling the second propeller drive 201 are generated from the control command.

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Motivation to do so is to combine control of the propeller drives from one input device through a microprocessor.

For claim 4, 201 is clearly an electrical motor that has been arranged into an azimuth pod.

For claim 5, the second propeller drive is a power engine 101 that has been arranged on a fixed shaft.

In Langenberg et al both propellers 1 and 5 clearly have fixed blades.

#### Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sherman D. Basinger whose telephone number is 571-272-6679. The examiner can normally be reached on Monday through Friday, 5:30 a.m. to 2:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Samuel J. Morano can be reached on 571-272-6684. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sherman Basinger/ Sherman Basinger, PE Art Unit 3617

Thursday, August 02, 2007